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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/659,211	09/11/2000	Noriyuki Hirayanagi	4641-55447	5080
7	590 09/23/2002			
Klarquist Sprakman Campbell Leigh & Whinston LLP			EXAMINER	
One World Trade Center Suite 1600 121 SW Salmon Street			EVERHART, CARIDAD	
Portland, OR	97204-2988		ART UNIT	PAPER NUMBER
			2825	-

DATE MAILED: 09/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u> ,		Application No.	Applicant(s)		
•	•	09/659,211	HIRAYANAGI, NORIYUKI		
Office Action Summary		Examiner	Art Unit		
	'S CONTROL COMMENT	Caridad M. Everhart	2825		
	Th MAILING DATE of this communica	tion appears on the cover sheet wit	h the correspond nce addr ss		
ariad f r	Renly				
THE MA - Extensi after SI - If the pe - If NO p - Failure	RTENED STATUTORY PERIOD FOR AILING DATE OF THIS COMMUNICATION ons of time may be available under the provisions of 3 (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) deriod for reply is specified above, the maximum statut to reply within the set or extended period for reply will by received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	ATTON.  37 CFR 1.136(a). In no event, however, may a rescation. lays, a reply within the statutory minimum of thirty ory period will apply and will expire SIX (6) MON	ply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).		
	Responsive to communication(s) filed	l on <u>25 June 2002</u> .			
, 0-\	This action is FINAL 2t	o)⊠ This action is non-final.			
3)	Since this application is in condition f closed in accordance with the practic	or allowance except for formal ma e under <i>Ex parte Quayle</i> , 1935 C.	tters, prosecution as to the ments is D. 11, 453 O.G. 213.		
Dispositio —	on of Claims	onlication	•		
4) 🖾 (	Claim(s) <u>1-12</u> is/are pending in the ap (a) Of the above claim(s) is/are	withdrawn from consideration.			
		William Tom Sonsider			
-	Claim(s) is/are allowed.				
	Claim(s) <u>1-12</u> is/are rejected.				
7)	Claim(s) is/are objected to.	reservation requirement			
	Claim(s) are subject to restrict	ion and/or election requirement.			
	on Papers	Evaminer			
9)[_] -	The specification is objected to by the The drawing(s) filed on is/are:	a) accepted or b) objected to by	the Examiner.		
		ection to the drawing(s) be held in abe	yance. See 37 Or N 1.00(4).		
	Applicant may not request that any objection filed	on is: a) approved b)	disapproved by the Examiner.		
11)	If approved, corrected drawings are req	uired in reply to this Office action.			
40)[]	The oath or declaration is objected to	by the Examiner.			
		-,			
Priority (	under 35 U.S.C. §§ 119 and 120  Acknowledgment is made of a claim	for foreign priority under 35 U.S.C	. § 119(a)-(d) or (f).		
		Tot foroign processy			
a)	<ul><li>☑ All b) ☐ Some * c) ☐ None of:</li><li>1. ☑ Certified copies of the priority</li></ul>	documents have been received.			
	1. Certified copies of the priority	documents have been received in	Application No		
	2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage				
*	application from the Interr	on for a list of the certified copies n	ot received.		
14)	Acknowledgment is made of a claim f	or domestic priority under 35 U.S.	C. § 119(e) (to a provisional application)		
	<ul> <li>a)</li></ul>	nguage provisional application has	g been receiveu.		
Attachme					
1) Not	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review ( prmation Disclosure Statement(s) (PTO-1449) F	PTO-948) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		
3,	Trademark Office		Part of Paper No. 6		

Application/Control Number: 09/659,211

Art Unit: 2825

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 103

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Vucht (US 4,977,328) in view of Kitagawa, et al. ("Kitagawa")(US 6,166,380).

Applicant has argued that Van Vucht does not teach subtracting backscattered particle data obtained from a region lacking an alignment mark from backscattered particle data obtained from an alignment mark on the substrate.

With respect to claims 1-7, Van Vucht is relied upon as discussed in paper No.

Kitagawa is relied upon for its teaching that in the analysis of backscattered electrons (col. 2, lines 37-41) in an imaging process which uses a particle beam(abstract), the intensity of the backscattering of the substrate or background of the feature being imaged is subtracted from the intensity of the backscattering of the feature being imaged (col. 6, lines 15-30).

One of ordinary skill in the art would have been motivated to have combined the teaching from Kitagawa with the process taught by Van Vucht because it is implicit in the teaching of a contrast which is a difference between the signals of the specimen and the marker taught by Van Vucht that the difference between the signal from the

Application/Control Number: 09/659,211

Art Unit: 2825

alignment mark and and the background would be obtained by subtracting the background from the signal from the alignment mark.

With respect to claims 8-12, the reasons for the rejection are as discussed in paper No. 4

Applicant has in addition argued that the method of Van Vucht addresses a different problem from applicant's method. This argument is respectfully found not to be persuasive because it is believed that, although the purpose of the method disclosed by Van Vucht may be different from applicant's method, the combination of Van Vucht with Kitagawa shows that the step of subtraction of a signal from the background from the signal from the feature being detected is a step that is known in the prior art and that the method disclosed by Van Vucht encompasses this step. In addition, it is believed that the method disclosed by Van Vucht provides for the determination of the relative position of a specimen provided with a marker, as pointed out in paper No. 4.

.THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 09/659,211

Art Unit: 2825

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 703-308-3455. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 703-308-1323. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

*C. Lveshask* Caridad everhart Primary examiner

C. Everhart September 18, 2002